

ABSTRACT

The present invention is aimed at a device for ship making it possible to avoid
 5 obstacles, in particular obstacles submerged at low depth. By performing an early detection
 of the echos originating from objects situated on the route of the ship, the device allows in
 particular the crew of the ship to make provisions to alter the heading so as to avoid these
 objects. In the preferred embodiment, the device according to the invention comprising two
 10 transmitters of acoustic waves spaced apart from one another and transmitting waves of
 distinct frequencies or of different waveforms, an acoustic receiver, whose reception band is
 suitable for the emission frequencies of the transmitters, means of processing of the received
 signals, these means making it possible to perform, through the echos received, a
 measurement of the difference of the propagation times of the waves transmitted by each of
 15 the transmitters as well as a measurement of the Doppler effect which affects each of the
 waves transmitted; these processing means thus determining the position of a the object
 having returned an echo. The device according to the invention is intended in particular for
 multihull ships and in particular for high-speed multihull ships.